

**In the Claims:**

The listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-24 (Canceled)

Claim 25. (Currently amended) A nonaqueous-electrolyte battery comprising:

a unit cell comprising a plurality of electrodes and a plurality of electrode terminal leads that are electrically connected to said respective electrodes and extend outwardly from said unit cell;

a sealant resin coatingly applied to at least a portion of each of said electrical terminal leads along a periphery of each of said electrical terminal leads so as at least a portion of said sealant resin has an uneven shape;

a battery case comprising a laminate layer that encloses said unit cell by heat welding at least a portion of said laminate layer so as to form a heat weld layer, said heat weld layer sealingly enclosing said unit cell by contacting said sealant resin so as at least a portion of each of said electrode terminal leads extends outwardly from said heat weld layer, where said sealant resin comprises a sealant resin length that is greater than a thickness of said battery case.

Claim 26. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said sealant resin comprises a single heat welding resin.

Claim 27. (Previously presented) A nonaqueous-electrolyte battery according to claim 26 wherein said heat-welding resin is selected from the group consisting of at least one of polyolefin, ethylene-acrylate copolymer, ethylene-methacrylate copolymer, ionomer resin and carboxylic resin.

Claim 28. (Previously presented) A nonaqueous-electrolyte battery according to claim 27 wherein said polyolefin is an acid denatured polyolefin.

Claim 29. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said sealant resin is a multilayer sealant resin that is formed by combining a heat welding resin and a resin that has a resin melting point which is higher than a heat welding resin melting point of said heat welding resin.

Claim 30. (Previously presented) A nonaqueous-electrolyte battery according to claim 29 wherein said heat welding resin melting point and said resin melting point have a difference of 22°C or greater.

Claim 31. (Previously presented) A nonaqueous-electrolyte battery according to claim 29 wherein said heat welding resin is selected from the group consisting of at least one of polyolefin, ethylene-acrylate copolymer, ethylene-methacrylate copolymer, ionomer resin and carboxylic resin, and wherein said resin is selected from the group consisting of at least one of polyimide, polyamide, and polyester.

Claim 32. (Previously presented) A nonaqueous-electrolyte battery according to claim 31 wherein said polyolefin is an acid denatured polyolefin.

Claim 33. (Previously presented) A nonaqueous-electrolyte battery according to claim 29 wherein said sealant resin comprises a base material that includes a resin, said resin has a resin melting point that is higher than a heat welding resin melting point of said heat welding resin, said heat welding resin being formed on each of a first and second side of said base material.

Claim 34. (Previously presented) A nonaqueous-electrolyte battery according to claim 29 wherein said heat welding resin is applied by coating.

Claim 35. (Canceled)

Claim 36. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said sealant resin comprises a sealant resin thickness that ranges from 10µm to 500µm.

Claim 37. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said unit cell comprises at least one of a gel electrolyte and a solid electrolyte that each contain a matrix polymer and a lithium salt.

Claim 38. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said unit cell comprises a negative electrode that contains a negative electrode material so as to permit doping and dedoping of lithium.

Claim 39. (Previously presented) A nonaqueous-electrolyte battery according to claim 38 wherein said negative electrode material comprises a carbon material.

Claim 40. (Previously presented) A nonaqueous-electrolyte battery according to claim 25 wherein said unit cell comprises a positive electrode that contains a composite oxide of lithium and a transition metal.

Claims 41-48 (Canceled)

Claim 49. (Previously presented) A nonaqueous-electrolyte battery comprising:  
a unit cell comprising positive and negative electrodes and positive and negative electrode terminal leads that are electrically connected to said respective electrodes and extend outwardly from said unit cell, where burrs are formed in the negative electrode terminal lead;  
a sealant resin coatingly applied to at least a portion of each of said electrical terminal leads along a periphery of each of said electrical leads so as at least a portion of said sealant resin has an uneven shape;

a battery case comprising a laminate layer that encloses said unit cell by heat welding at least a portion of said laminate layer so as to form a heat weld layer, said heat weld layer sealingly enclosing said unit cell by contacting said sealant resin so as at least a portion of each of said electrode terminal leads extends outwardly from said heat weld layer.

Claim 50. (new) A nonaqueous-electrolyte battery according to claim 25 wherein the terminal leads are exposed to the outside by 0.5 mm or longer.

Claim 51. (new) A nonaqueous-electrolyte battery comprising:  
a unit cell comprising a plurality of electrodes and a plurality of electrode terminal leads that are electrically connected to said respective electrodes and extend outwardly from said unit cell;

a sealant resin coatingly applied to at least a portion of each of said electrical terminal leads along a periphery of each of said electrical terminal leads so as at least a portion of said sealant resin has an uneven shape;

*Wife  
Dad  
Sue*  
a battery case comprising a single laminate film forming a laminate layer that encloses said unit cell by heat welding at least a portion of said laminate layer so as to form a heat weld layer, said heat weld layer sealingly enclosing said unit cell by contacting said sealant resin so as at least a portion of each of said electrode terminal leads extends outwardly from said heat weld layer.

Claim 52. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said sealant resin comprises a single heat welding resin.


Claim 53. (New) A nonaqueous-electrolyte battery according to claim 52 wherein said heat-welding resin is selected from the group consisting of at least one of polyolefin, ethylene-acrylate copolymer, ethylene-methacrylate copolymer, ionomer resin and carboxylic resin.

Claim 54. (New) A nonaqueous-electrolyte battery according to claim 53 wherein said polyolefin is an acid denatured polyolefin.

Claim 55. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said sealant resin is a multilayer sealant resin that is formed by combining a heat welding resin and a resin that has a resin melting point which is higher than a heat welding resin melting point of said heat welding resin.

Claim 56. (New) A nonaqueous-electrolyte battery according to claim 55 wherein said heat welding resin melting point and said resin melting point have a difference of 22°C or greater.

Claim 57. (New) A nonaqueous-electrolyte battery according to claim 55 wherein said heat welding resin is selected from the group consisting of at least one of polyolefin, ethylene-acrylate copolymer, ethylene-methacrylate copolymer, ionomer resin and carboxylic resin, and wherein said resin is selected from the group consisting of at least one of polyimide, polyamide, and polyester.

 Claim 58. (New) A nonaqueous-electrolyte battery according to claim 57 wherein said polyolefin is an acid denatured polyolefin.

Claim 59. (New) A nonaqueous-electrolyte battery according to claim 55 wherein said sealant resin comprises a base material that includes a resin, said resin has a resin melting point that is higher than a heat welding resin melting point of said heat welding heat resin, said heat welting resin being formed on each of a first and second side of said base material.

Claim 60. (New) A nonaqueous-electrolyte battery according to claim 55 wherein said heat welding resin is applied by coating.

Claim 61. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said sealant resin comprises a sealant resin thickness that ranges from 10μm to 500μm.

Claim 62. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said unit cell comprises at least one of a gel electrolyte and a solid electrolyte that each contain a matrix polymer and a lithium salt.

Claim 63. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said unit cell comprises a negative electrode that contains a negative electrode material so as to permit doping and dedoping of lithium.

Claim 64. (New) A nonaqueous-electrolyte battery according to claim 63 wherein said negative electrode material comprises a carbon material.

Claim 65. (New) A nonaqueous-electrolyte battery according to claim 51 wherein said unit cell comprises a positive electrode that contains a composite oxide of lithium and a transition metal.

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